

ARE YOU SICKLY?

IS THE APPETITE GONE?
IS THE DIGESTION POOR?
ARE YOU RUN DOWN?
COMPLETELY DISCOURAGED?

YOU SHOULD TRY HOSTETTER'S STOMACH BITTERS AT ONCE. IT REALLY HELPS

Sketch Under Shell Fire.

Some of the many artists who are at the front in France make their sketches undaunted by shell fire. The Century magazine publishes a picture of the ruins of a farm house, about which the battle had raged, drawn by Henri Jacquier, who took the first grand prix of the Salon. "While M. Jacquier," says a fellow-artist, "was finishing this drawing with very rapid pencil strokes, a shell burst near him, and actually flung the earth into his car. But the drawing was finished."

THICK LOVELY HAIR

Because Free From Dandruff, Itching, Irritation and Dryness.

May be brought about by shampoos with Cuticura Soap preceded by touches of Cuticura Ointment to spots of dandruff, itching and irritation. A clean, healthy scalp means good hair. Try these supercreamy emollients if you have any hair or scalp trouble. Sample each free by mail with Book. Address postcard, Cuticura, Dept. XY, Boston. Sold everywhere.—Adv.

It Made Him Think.

"I listened to your speech with the greatest care," said the constituent to the young congressman.

"Well, I think there was food for thought in it," said the congressman. "You bet there was! It just made me think what a fool I had been to vote for you."

For a really fine coffee at a moderate price, drink Denison's Seminole Brand, 35c the lb., in sealed cans.

Only one merchant in each town sells Seminole. If your grocer isn't the one, write the Denison Coffee Co., Chicago, for a souvenir and the name of your Seminole dealer.

Buy the 3 lb. Canister Can for \$1.00.—Adv.

His Position.

"Do as you would be done by, my boy."

"But I don't want to be done by anybody, dad."

The Fatal Words.

"Is Mr. Slyboy very talkative?"

"No; I've been trying for two years to make him speak."

Always proud to show white clothes, Red Cross Ball Blue does make them white. All grocers. Adv.

The Brazilian government estimates next year's revenue at \$169,660,000 and expenditures at \$174,254,000.

Some people take particular joy in telling the truth when they know that it is unpleasant.

Certain-teed
Roofing
Is guaranteed in writing, 5 years for 1-ply 10 years for 2-ply and 15 years for 3-ply, and the responsibility of our big mills stands behind this guarantee. Its quality is the highest and its price the most reasonable.
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IMPROVING THE POST-ROADS

Four Hundred and Sixty-Five Miles of Experimental Highways Are Now Under Construction.

Four hundred and sixty-five miles of experimental post-roads of different types, benefiting 28 different counties, are now under construction in 13 states, which are co-operating with the federal government. These roads, which are being built under the supervision of the department, are authorized by the act of congress of Au-



Ohio State Highway, Brick.

gust 24, 1912, which appropriated for the post-road department \$500,000, to be expended in an experiment to test out the value of improved rural-carrier routes. The federal government pays one-third and the state or county benefited must defray two-thirds of the cost. The entire sum of \$500,000 of federal funds and \$1,000,000 of local funds will be expended under the supervision and checking of federal highway engineers.

The following work on post-road improvement has been undertaken, according to a bulletin dealing with the construction and maintenance of roads and bridges, issued by the department:

Lauderdale county, Alabama, 30 miles of earth road.

Boone and Story counties, Iowa, 51 miles of earth road.

Dubuque county, Iowa, 20 miles of gravel road.

Bath and Montgomery counties, Kentucky, 11 miles of macadam road.

Montgomery county, Maryland, 5.4 miles of macadam road.

Cumberland county, Maine, 21 miles of bituminous macadam road.

Leflore county, Mississippi, 24 miles of gravel road.

McDowell county, North Carolina, 16 miles of earth road.

Davie, Forsyth and Iredell counties, North Carolina, 48 miles of sand-clay and top-soil road.

Licking and Muskingum counties, Ohio, 24 miles of concrete road.

Jackson county, Oregon, 51.4 miles of earth road.

Aiken county, South Carolina, 27.3 miles of sand-clay and top-soil road.

Loudon county, Tennessee, 6.4 miles of macadam road.

Montgomery county, Tennessee, 7.6 miles of macadam road.

Bexar, Comal, Aravis, Hays and Guadalupe counties, Texas, 71.6 miles of gravel road.

Fairfax county, Virginia, 12.3 miles of gravel road.

Spotsylvania, Caroline and Hanover counties, Virginia, 38.2 miles of sand-clay and top-soil road.

As rapidly as these roads are constructed the department is endeavoring to interest the local authorities in inaugurating systematic maintenance to keep them in condition. The county engineer has undertaken the maintenance of the Virginia post-road in Spotsylvania county, and another will supervise the upkeep of the completed part of the Ohio post-road. It is believed that this local maintenance system will be extended to the post-roads to be built in Maine, Tennessee, Texas and Alabama.

Bulletin on Roads.

The United States department of Agriculture bulletin, No. 220, is upon the subject of roads, and it is well worth reading. It tells of Roman roads, French roads, and treats not only of road surfacing, but of road grading and foundations for roads. Send for it, it's free.

Keep Roadsides Clean.

Roadsides and fence rows free of weeds, rank grass and rubbish, are not only pleasing in appearance, but injurious crop pests cannot start housekeeping in such places. Neither is there a chance for noxious weeds to mature or dangerous plant diseases to start on clean roadsides.

Greatest Single Factor.

The greatest single factor in national economies is transportation, and the greatest single factor in economical transportation is good roads.

AUTUMN IS BEST TIME TO PRUNE GRAPES

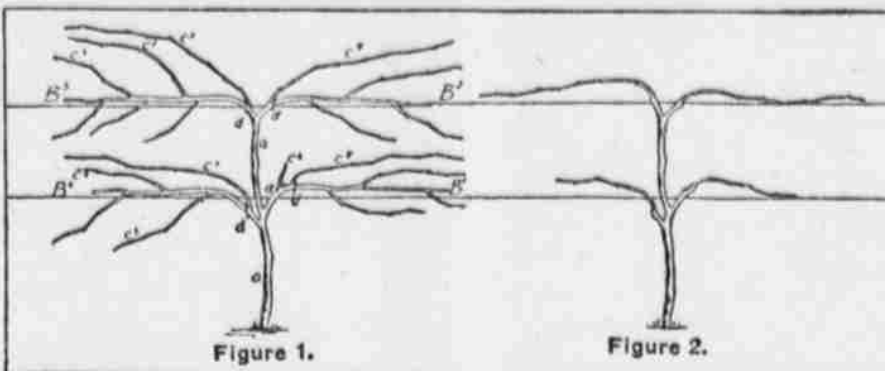


Figure 1.

Figure 2.

(By PROF. J. G. MOORE, Wisconsin College of Agriculture.)

In those sections where winter protection of the grape is advisable, the greater part of the pruning should be done in autumn after the leaves have fallen. There is a variety of systems of training in use, but the one which will require the least attention during the growing season is the drooping system, commonly known as the Kniffin system. There are several modifications of the original Kniffin system, but these are modifications of detail rather than principle. The four cane Kniffin is the one most commonly used.

In this system a two-wire trellis is necessary. The bottom wire should be at least two feet from the ground and the upper wire two feet higher. With most varieties these distances should be somewhat greater. The four cane Kniffin system consists of so pruning the vine that two canes are left for each trellis wire, one running in either direction.

A healthy grapevine, after a season's growth possesses several times as much wood as it is desirable to leave for the production of the next season's crop. As a rule the amateur grape grower leaves altogether too much wood on the vine.

Figure 1 illustrates a vine as it appears on the trellis in the autumn after the leaves have fallen. It will be seen that the vine is really composed of wood of three ages; "a" represents the trunk or oldest portion of the vine. From this arises four branches, canes "b," "c," "d," "e," which have finished their second season's growth, and from each

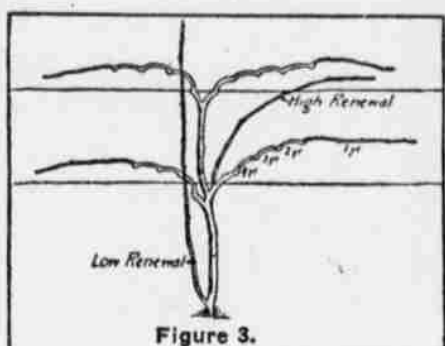


Figure 3.

arises several shoots "c," "d," "e," which have been produced the past season and which, at or near their base, produced the fruit crop. These shoots of the growing season just past become the canes of the coming season. It will be noted that each of these shoots possess a number of buds. If all were left there would be too many new shoots next season endeavoring to produce fruit, which would result in the weakening of the vine and inferior fruit production. In addition, the vine would soon be only a tangled mass similar to a wild grape vine.

Pruning of this vine will consist in reducing the wood so that it may be kept within bounds and still produce the maximum amount of good fruit without weakening the plant. It is evident that we must select four of the shoots to replace the four two-year-old canes. Two things should be kept in mind in making this selection. First, that the shoots selected should be good, vigorous ones; second, that they should arise as near the base of the canes as possible, as it is desirable to keep the producing wood close to the trunk.

In pruning the vine illustrated in Fig. 1, we will therefore select shoots "c," "d," "e," "f," "g," "h," "i," "j," although nearer the trunk than "c," "d," is discarded because of its weakness and lack of sufficient strong buds. We will remove the canes and shoots other than those selected by making cuts at "d."

The next question which arises is how much of shoots "c," "d," "e," "f," "g," "h," "i," "j," should be removed. This depends upon a number of factors, such as age of plant, distance between plants, char-

acteristic growth of the variety and vigor of vine. Under ordinary conditions usually from four to six buds are left on the shoots for the lower trellis wire and from eight to ten on those for the upper trellis wire. It must be understood that this number is only suggestive and the grower must use his judgment as regards the number of buds. He will be materially assisted in this if he will remember that under favorable conditions each bud left will produce a shoot the following season and that each shoot should produce from three to five bunches of grapes. Our vine, properly pruned and tied to the trellis the following spring will look like the one illustrated in Fig. 2.

If the vines are old and neglected, some difficulty may be experienced in getting the ideal form of vine. Under such circumstances the grower should not expect a well-formed vine for at least two years.

In cases of this sort it may be necessary to develop a new trunk. This may be done by selecting one of the shoots which has arisen from the base of the vine or low down upon the old trunk. It should be left just long enough to permit of tying to the upper trellis wire. The following season it will produce shoots and may then be handled as a new vine.

Observation will reveal that each succeeding season the bearing wood is getting farther and farther removed from the trunk. In time it becomes desirable to get back nearer the root system. This is accomplished by taking out renewals. Renewals are of two kinds—low and high renewals. A low renewal is taken from near the base of the plant and ultimately becomes the trunk. It is essentially described above. A high renewal is a renewal of the extension of the trunk (arm) from which the cane arises. High renewal is accomplished by selecting a shoot arising from the trunk near the trellis wire or at the base of the arm from which the canes arise. Low and high renewals are illustrated in Fig. 3.

POULTRY AND FRUIT GO WELL TOGETHER

Hens Render Valuable Service in Destroying Injurious Insects in the Orchard.

If the hens have the run of an orchard they will not render as good service in protecting the trees from injurious insects as they will if confined in yards around the trees. While the orchard should be utilized, it gives much opportunity to the fowls to work over a large surface, which may to a certain extent lessen their vigilance around the trees.

The old maxim is, "Bring your chickens to your tree, keep them there and they will destroy more insects than in any other way." The suggestion is a good one if not inflicting extra expense for fencing, but it is possible that some kind of movable fence should answer the purpose, as the fowls need not be confined except early in the season.

Surest of Bearers.

After all, the grapevine is one of the surest bearers, as it fruits on new wood entirely, and even if some of the new vines are neglected, it puts out fresh wood which bears some fruit.

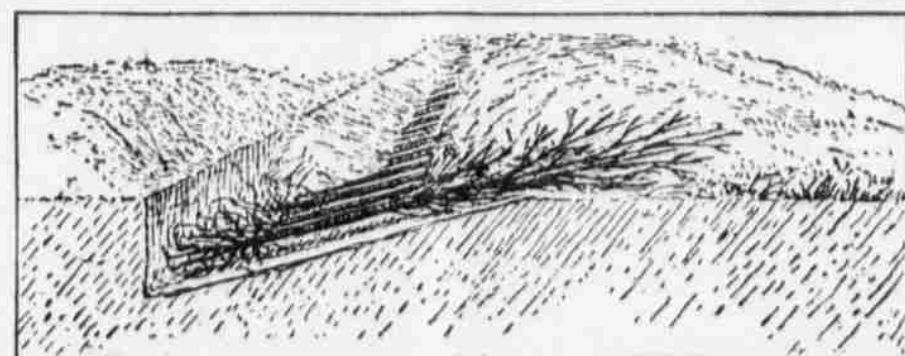
Keep the Sheep Dry.

Sheep must not be allowed any cold rain wettings. It will take off the gain of a week's feeding.

Keep Calves Growing.

Keep the calves busy "putting it on" if they are intended for baby beef.

HEELING IN NURSERY STOCK FOR WINTER



Young Trees in Trench.

Farmers often buy nursery stock in the fall, either for immediate planting or for setting out in the spring. The great objection to ordering in the spring is that the buyer must wait the convenience of the nurserymen, must be prepared for delays due to transportation and must do the work at the busiest time of year. When it is necessary to hold trees over winter they should be heeled in. A trench 12 to 18 inches deep is opened and the trees laid obliquely, as shown in the cut. They are then covered completely with soil and allowed to remain undisturbed until spring. No hay or straw should be used in connection with the trees. Such material furnishes harbors for mice. In the spring when planting time arrives the trees may be set at once.—Orange Judd Farmer.

10c Worth of DU PONT Will Clear \$1.00 Worth of Land



Get rid of the stumps and grow big crops on cleared land. Now is the time to clean up your farm while products bring high prices. Blasting is quickest, cheapest and easiest with Low Freezing Du Pont Explosives. They work in cold weather.

Write for Free Handbook of Explosives No. 69F, and name of nearest dealer.

DU PONT POWDER COMPANY
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Crinoline in History.

The oft-threatened return of the crinoline, prophesied by alarmists of fashion, leaves us all wondering. We find that the crinoline was first worn in the sixteenth century by a Spanish princess, who used it to conceal her love letters from a forbidden admirer. According to pictures of Queen Elizabeth, she was the first to wear it in England, a writer in the St. Louis Post-Dispatch states. Perhaps she wore it for the same reason. She had need of pockets to hide such, provided all her admirers wrote to her. Among her earlier portraits we find that her dress resembled that of Queen Mary, her sister. The skirts of these were simply widened at the bottom.

Ancient Egypt.

There are no statistics for the population of ancient Egypt. Herodotus says that in the reign of Amasis the number of inhabited cities was not less than 20,000. Amasis reigned somewhere about 525 B. C. The number of cities given by Herodotus is held to be impossible. Authorities on ancient Egypt are Maspero, Champollion, Flinders Petrie, and Rawlinson. The Encyclopedia Britannica has an exhaustive article on the subject.

Easily Satisfied.

"What do you think of the new state constitution?"
"I haven't read it, but I'm for it, provided there's nothing in it to prevent me from going out to play golf on election day."

A bachelor girl is sometimes an old maid who is ashamed to admit it.

Pacific coast hops are now largely picked by machinery.

FOUND HIS TROUSERS IN USE

Incident That Probably Would Have Embarrassed Anybody but a Citizen of Pittsburgh.

A Pittsburgh man who frequently goes to Columbus, representing a boiler concern, had an adventure recently on that home of adventures—a Pullman car. He had taken an upper berth. At the time he retired the lower berth was unoccupied. But before the night was far advanced a woman took the lower berth.

Just before he went to slumberland the Pittsburgher hung his trousers over the edge of the berth so as to keep them as smooth as possible. When he awoke he started to pull his trousers up, but there was a tug in the other direction. He pulled again and was again resisted. Finally he discovered that the woman had taken his trousers for a part of the draperies and had pinned to them all of her extra and extraneous hair. Gallantly he waited until she had detached her tresses, after which the trousers were made to serve their natural purpose.—Columbus Dispatch.

Real Far.

"Isn't the fighting in France terrible just now?"

"Oh, it's awful!"

"Yes, so much of it is in Champagne, I am afraid there will be a real scarcity at functions this winter."

Telling a woman not to worry is about as effective as warning a small boy not to eat too much.

The Moskwa, one of Peter the Great's squadron in 1718, has been found near Libau.



When Health is Wrong The Pay is Short

Getting ahead in this world calls for mental and physical forces kept upbuilt and in trim.

Often the food one eats "makes" or "breaks"—it depends upon the kind of food. In many cases the daily dietary lacks certain essential elements for keeping brain and body at their best.

Over 18 years ago a food was perfected to offset this lack—

Grape-Nuts

—and it has stood the test of the years.

Made of whole wheat and malted barley this famous pure food supplies all the nutriment of the grains including their mineral salts—Phosphate of Potash, etc.—necessary for building brain, nerve and muscle.

Grape-Nuts has a delicious nut-like flavour; is always ready to eat—fresh, and crisp from the package; so thoroughly baked it is partially predigested.

Thousands "on the job" every day know

"There's a Reason" for Grape-Nuts

—sold by Grocers everywhere.